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The phage display technique was developed further when the gene sequence for parts of the antibody producing cells was incorporated and systematically varied or permuted in the phage display particles, as described in Collins J. and Röttgen P. (1994); "Hypervariable phagemid display gene banks for the selection of strongly binding ligands, including their use for the isolation of serine protease inhibitors"; European patent application 1994 000 108 689 (April 1994) taken further as US [592559]592559 <<Phagamids and process of preparation>> issued 20 July 1999, and by Collins, J., Röttgen, (1997); <<Cosmix-plexing a method for recombination....>> EP 97 101 539.1 [(06.02.1997)](31.01.1997), filed by Cosmix GmbH PCT/EP98/[00533]00533 (02.02.1998) and WO 98 33901 (06.08.1998).

Suitable cyanine dyes are further described in US5627027: <<Cyanine dyes as labeling reagents for detection of biological and other materials by luminescence methods>> by Waggoner; Alan S, 6 May 1997. Furthermore, suitable substances are described in the prior art, such as e.g. in Waggoner et al US patent 6008373 or Brush and Reimer US patent [5988086]5986086 or Krandiker [&]et al. US patent 5852191 or Kusakata [&]et al. US patent 4847385 or Waggoner's US [P]patent 5569587.